

HPX Drill

High-Performance Solid Carbide Drill

Materials

P

Applications

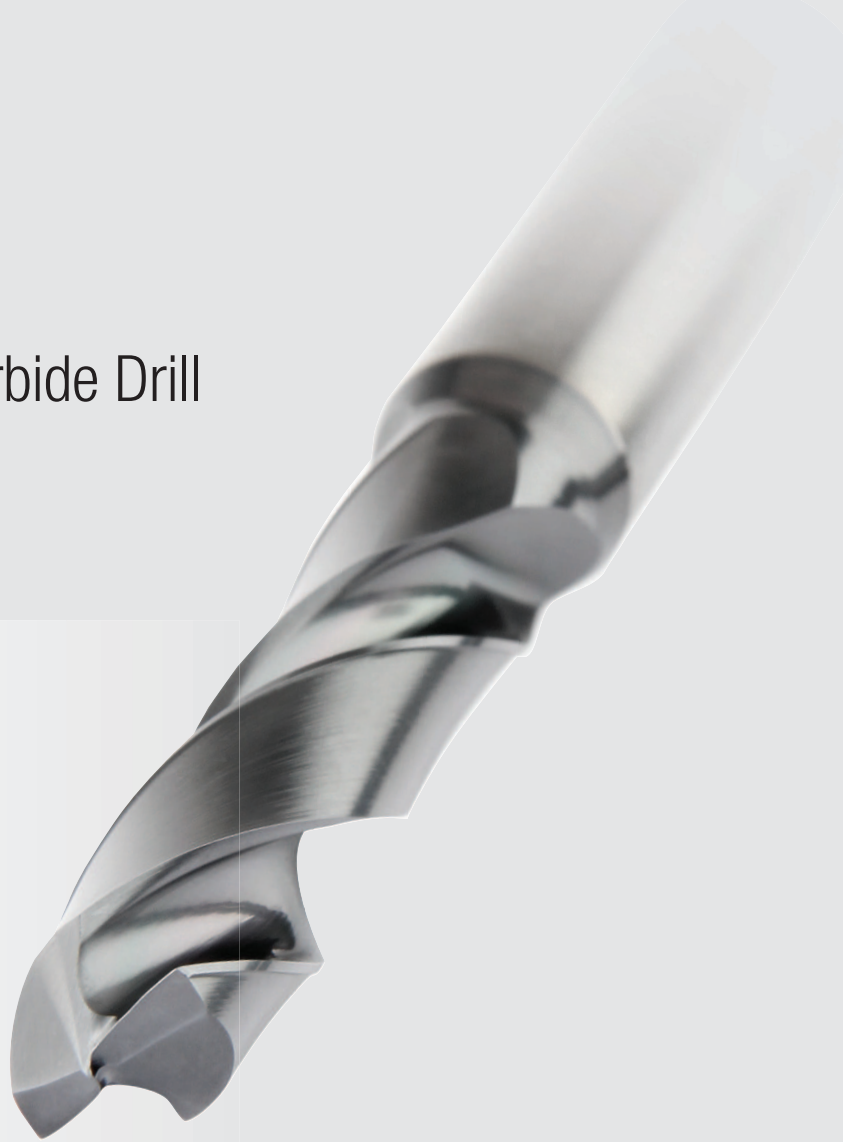


Drilling



Drilling:
Stacked Plates

kennametal.com/HPX-Drill



The new HPX drill series is the high-performance solution for any high-volume steel production.

Material-specific HPX edge preparation — A straight cutting edge reduces build-up and chipping on cutting edge and margin land.

Material-specific HPX drill point — Patented HPX point provides excellent self-centring capabilities, reduces thrust, and enables precise centre chip formation.

Material-specific HPX margins — 2 margin lands provide stability and reduce friction.

Straight cutting edge — Reduces build-up and chipping on cutting edge and margin land.

140° point angle — For ideal cutting conditions. Perfect for pilot drilling of deep holes.



Corner chamfer — Built-in cutting edge corner protection, reduces chipping and extends tool life.

2 margin lands for stability and less friction.

Up to 8 x D drilling.

Standard MQL backend.



The HPX drill design — Up to 3x higher cutting parameters, saving machining time and freeing up capacity.

Ultra-high polished chip flutes reduce friction, improve chip evacuation, and increase tool life.

A continuous chip-flute cross-section reduces vibrations and cutting edge chipping.

TOOL SELECTION GUIDE • MATERIAL SPECIFIC DRILLS

	HPX Drills	HPX Drills	SGL Drills	HPS Drills	Y-TECH™ Drills	KMH Drills	KMH Drills
							
							
Series	B221_HP B222_HP	B224_HP B225_HP B226_HP	B210_SGL B211_SGL B212_SGL	B284_HPS B285_HPS B286_HPS	B291_YPL B292_YPL	B941A	B951A
Page	11, 14	16, 18, 21	G38*	G88*	G94*	G126*	G127*
Workpiece material							
Primary	P	P	M S	N	M S	H	H
Secondary	K		P		P	P K	P K
Hole tolerance	IT9-IT10	IT9-IT10	IT9-IT10	IT9-IT10	IT9-IT10	IT9-IT10	IT9-IT10
Standard range							
Cutting diameter [D1]	3,0-20,0mm	3,0-20,0mm	2,5-20,0mm	3,0-20,0mm	3,0-20,0mm	2,5-14,0mm	3,0-16,0mm
Drill length [L4 max]	14,0-85,0mm	14,0-160,0mm	12,0-160,0mm	14,0-124,0mm	14,0-77,0mm	14,0-43,0mm	14,0-45,0mm
Drilling depth L/D1	3-5 x D	3-8 x D	3-8 x D	3-8 x D	3-5 x D	3 x D	3 x D
Point angle	140°	140°	140°	135°	140°	142°	140°
Flute angle	30°	30°	30°	30°	30°	15°	30°
Coolant	 	 		 	 	 	 
Operations	 	 	 	 		  	  
Flutes and margin							
Corner chamfer							
Shank							

* See page in the Kennametal Master Catalogue 2018 • Volume Two • Rotating Tools, A-16-05217.

- Primary
- Secondary

TOOL SELECTION GUIDE • VERSATILE DRILLS

	G0drill™	G0drill	Kenna Universal™ Drills	Kenna Universal Drills
				
				
Series	B041A_CPG B042A_CPG	B051A_CPG B052A_CPG B053A_CPG	B966A B967A	B976A B977A B978A
Page	G8*	G18*	G132*	G138/G146*
Workpiece material				
Primary	P M K N S	P M K N S	P K	P K
Secondary	H	H	M N S	M N S
Hole tolerance	IT9–IT10	IT9–IT10	IT9–IT10	IT9–IT10
Standard range				
Cutting diameter [D1]	1,0–20,0mm	1,0–20,0mm	3,0–20,0mm	2,4–20,0mm
Drill length [L4 max]	5,0–77,0mm	5,0–124,0mm	14,0–85,0mm	12,0–124,0mm
Drilling depth L/D1	3–5 x D	3–8 x D	3–5 x D	3–8 x D
Point angle	140°	140°	140°	140°/132°
Flute angle	30°	30°	30°	30°
Coolant			 	 
Operations			   	   
Flutes and margin				
Corner chamfer				
Shank	 	 	 	 

* See page in the Kennametal Master Catalogue 2018 • Volume Two • Rotating Tools, A-16-05217.

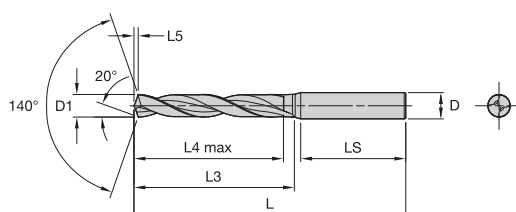
- Primary
- Secondary

Each character in our catalogue number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



HPX = Next generation HP point for steel

HPX • B221 • 3 X D



● first choice

○ alternate choice

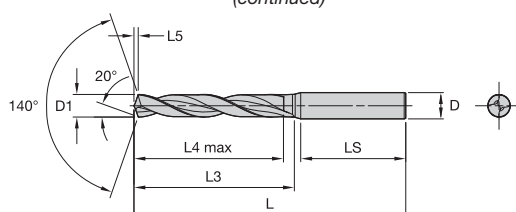
P	●
M	●
K	●
N	●
S	●
H	●

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B221A03000HPX	3,00	62	20	14	0,7	36	6	●
B221A03048HPX	3,05	62	20	14	0,7	36	6	●
B221A03100HPX	3,10	62	20	14	0,7	36	6	●
B221A03175HPX	3,18	62	20	14	0,7	36	6	●
B221A03200HPX	3,20	62	20	14	0,7	36	6	●
B221A03264HPX	3,26	62	20	14	0,8	36	6	●
B221A03300HPX	3,30	62	20	14	0,8	36	6	●
B221A03400HPX	3,40	62	20	14	0,8	36	6	●
B221A03455HPX	3,46	62	20	14	0,8	36	6	●
B221A03500HPX	3,50	62	20	14	0,8	36	6	●
B221A03571HPX	3,57	62	20	14	0,8	36	6	●
B221A03600HPX	3,60	62	20	14	0,8	36	6	●
B221A03658HPX	3,66	62	20	14	0,8	36	6	●
B221A03700HPX	3,70	62	20	14	0,8	36	6	●
B221A03800HPX	3,80	66	24	17	0,9	36	6	●
B221A03900HPX	3,90	66	24	17	0,9	36	6	●
B221A03970HPX	3,97	66	24	17	0,9	36	6	●
B221A04000HPX	4,00	66	24	17	0,9	36	6	●
B221A04039HPX	4,04	66	24	17	0,9	36	6	●
B221A04100HPX	4,10	66	24	17	0,9	36	6	●
B221A04200HPX	4,20	66	24	17	0,9	36	6	●
B221A04217HPX	4,22	66	24	17	1,0	36	6	●
B221A04300HPX	4,30	66	24	17	1,0	36	6	●
B221A04366HPX	4,37	66	24	17	1,0	36	6	●
B221A04400HPX	4,40	66	24	17	1,0	36	6	●
B221A04500HPX	4,50	66	24	17	1,0	36	6	●
B221A04600HPX	4,60	66	24	17	1,0	36	6	●
B221A04623HPX	4,62	66	24	17	1,0	36	6	●
B221A04700HPX	4,70	66	24	17	1,1	36	6	●
B221A04763HPX	4,76	66	28	20	1,1	36	6	●
B221A04800HPX	4,80	66	28	20	1,1	36	6	●
B221A04852HPX	4,85	66	28	20	1,1	36	6	●
B221A04900HPX	4,90	66	28	20	1,1	36	6	●
B221A05000HPX	5,00	66	28	20	1,1	36	6	●
B221A05100HPX	5,10	66	28	20	1,1	36	6	●
B221A05106HPX	5,11	66	28	20	1,1	36	6	●
B221A05159HPX	5,16	66	28	20	1,1	36	6	●
B221A05200HPX	5,20	66	28	20	1,2	36	6	●
B221A05300HPX	5,30	66	28	20	1,2	36	6	●
B221A05400HPX	5,40	66	28	20	1,2	36	6	●
B221A05410HPX	5,41	66	28	20	1,2	36	6	●
B221A05500HPX	5,50	66	28	20	1,2	36	6	●
B221A05558HPX	5,56	66	28	20	1,2	36	6	●
B221A05600HPX	5,60	66	28	20	1,2	36	6	●
B221A05700HPX	5,70	66	28	20	1,3	36	6	●
B221A05791HPX	5,79	66	28	20	1,3	36	6	●
B221A05800HPX	5,80	66	28	20	1,3	36	6	●
B221A05900HPX	5,90	66	28	20	1,3	36	6	●
B221A05954HPX	5,95	66	28	20	1,3	36	6	●
B221A06000HPX	6,00	66	28	20	1,3	36	6	●
B221A06100HPX	6,10	79	34	24	1,3	36	8	●
B221A06200HPX	6,20	79	34	24	1,4	36	8	●
B221A06300HPX	6,30	79	34	24	1,4	36	8	●
B221A06350HPX	6,35	79	34	24	1,4	36	8	●
B221A06400HPX	6,40	79	34	24	1,4	36	8	●
B221A06500HPX	6,50	79	34	24	1,4	36	8	●
B221A06528HPX	6,53	79	34	24	1,4	36	8	●
B221A06600HPX	6,60	79	34	24	1,4	36	8	●
B221A06700HPX	6,70	79	34	24	1,5	36	8	●
B221A06746HPX	6,75	79	34	24	1,5	36	8	●

				NOVO
154	156	10	4	160

HPX • B221 • 3 X D

(continued)



● first choice

○ alternate choice

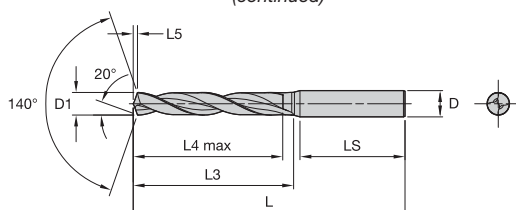
P		
M		
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catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B221A06800HPX	6,80	79	34	24	1,5	36	8	●
B221A06900HPX	6,90	79	34	24	1,5	36	8	●
B221A07000HPX	7,00	79	34	24	1,5	36	8	●
B221A07100HPX	7,10	79	41	29	1,5	36	8	●
B221A07145HPX	7,15	79	41	29	1,6	36	8	●
B221A07200HPX	7,20	79	41	29	1,6	36	8	●
B221A07300HPX	7,30	79	41	29	1,6	36	8	●
B221A07400HPX	7,40	79	41	29	1,6	36	8	●
B221A07500HPX	7,50	79	41	29	1,6	36	8	●
B221A07541HPX	7,54	79	41	29	1,6	36	8	●
B221A07600HPX	7,60	79	41	29	1,6	36	8	●
B221A07700HPX	7,70	79	41	29	1,7	36	8	●
B221A07800HPX	7,80	79	41	29	1,7	36	8	●
B221A07900HPX	7,90	79	41	29	1,7	36	8	●
B221A07938HPX	7,94	79	41	29	1,7	36	8	●
B221A08000HPX	8,00	79	41	29	1,7	36	8	●
B221A08100HPX	8,10	89	47	35	1,7	40	10	●
B221A08200HPX	8,20	89	47	35	1,8	40	10	●
B221A08300HPX	8,30	89	47	35	1,8	40	10	●
B221A08334HPX	8,33	89	47	35	1,8	40	10	●
B221A08400HPX	8,40	89	47	35	1,8	40	10	●
B221A08500HPX	8,50	89	47	35	1,8	40	10	●
B221A08600HPX	8,60	89	47	35	1,8	40	10	●
B221A08700HPX	8,70	89	47	35	1,9	40	10	●
B221A08733HPX	8,73	89	47	35	1,9	40	10	●
B221A08800HPX	8,80	89	47	35	1,9	40	10	●
B221A08900HPX	8,90	89	47	35	1,9	40	10	●
B221A09000HPX	9,00	89	47	35	1,9	40	10	●
B221A09100HPX	9,10	89	47	35	1,9	40	10	●
B221A09129HPX	9,13	89	47	35	2,0	40	10	●
B221A09200HPX	9,20	89	47	35	2,0	40	10	●
B221A09300HPX	9,30	89	47	35	2,0	40	10	●
B221A09347HPX	9,35	89	47	35	2,0	40	10	●
B221A09400HPX	9,40	89	47	35	2,0	40	10	●
B221A09500HPX	9,50	89	47	35	2,0	40	10	●
B221A09525HPX	9,53	89	47	35	2,0	40	10	●
B221A09600HPX	9,60	89	47	35	2,0	40	10	●
B221A09700HPX	9,70	89	47	35	2,1	40	10	●
B221A09800HPX	9,80	89	47	35	2,1	40	10	●
B221A09900HPX	9,90	89	47	35	2,1	40	10	●
B221A09921HPX	9,92	89	47	35	2,1	40	10	●
B221A10000HPX	10,00	89	47	35	2,1	40	10	●
B221A10100HPX	10,10	102	55	40	2,1	45	12	●
B221A10200HPX	10,20	102	55	40	2,2	45	12	●
B221A10300HPX	10,30	102	55	40	2,2	45	12	●
B221A10320HPX	10,32	102	55	40	2,2	45	12	●
B221A10400HPX	10,40	102	55	40	2,2	45	12	●
B221A10500HPX	10,50	102	55	40	2,2	45	12	●
B221A10600HPX	10,60	102	55	40	2,2	45	12	●
B221A10700HPX	10,70	102	55	40	2,3	45	12	●
B221A10716HPX	10,72	102	55	40	2,3	45	12	●
B221A10800HPX	10,80	102	55	40	2,3	45	12	●
B221A11000HPX	11,00	102	55	40	2,3	45	12	●
B221A11100HPX	11,10	102	55	40	2,3	45	12	●
B221A11113HPX	11,11	102	55	40	2,3	45	12	●
B221A11200HPX	11,20	102	55	40	2,4	45	12	●
B221A11300HPX	11,30	102	55	40	2,4	45	12	●
B221A11400HPX	11,40	102	55	40	2,4	45	12	●
B221A11500HPX	11,50	102	55	40	2,4	45	12	●
B221A11509HPX	11,51	102	55	40	2,4	45	12	●

				NOVO
154	156	10	4	160

HPX • B221 • 3 X D

(continued)



● first choice

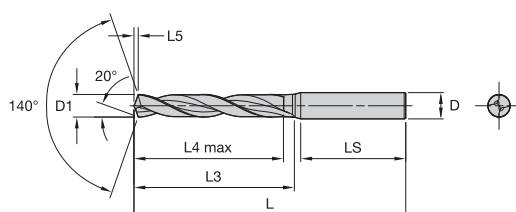
○ alternate choice

P		●
M		●
K		●
N		●
S		●
H		●

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B221A11600HPX	11,60	102	55	40	2,4	45	12	●
B221A11700HPX	11,70	102	55	40	2,5	45	12	●
B221A11800HPX	11,80	102	55	40	2,5	45	12	●
B221A11900HPX	11,90	102	55	40	2,5	45	12	●
B221A11908HPX	11,91	102	55	40	2,5	45	12	●
B221A12000HPX	12,00	102	55	40	2,5	45	12	●
B221A12100HPX	12,10	107	60	43	2,5	45	14	●
B221A12200HPX	12,20	107	60	43	2,6	45	14	●
B221A12300HPX	12,30	107	60	43	2,6	45	14	●
B221A12304HPX	12,30	107	60	43	2,6	45	14	●
B221A12400HPX	12,40	107	60	43	2,6	45	14	●
B221A12500HPX	12,50	107	60	43	2,6	45	14	●
B221A12600HPX	12,60	107	60	43	2,6	45	14	●
B221A12700HPX	12,70	107	60	43	2,7	45	14	●
B221A12800HPX	12,80	107	60	43	2,7	45	14	●
B221A12900HPX	12,90	107	60	43	2,7	45	14	●
B221A13000HPX	13,00	107	60	43	2,7	45	14	●
B221A13100HPX	13,10	107	60	43	2,7	45	14	●
B221A13300HPX	13,30	107	60	43	2,8	45	14	●
B221A13500HPX	13,50	107	60	43	2,8	45	14	●
B221A13700HPX	13,70	107	60	43	2,9	45	14	●
B221A13800HPX	13,80	107	60	43	2,9	45	14	●
B221A14000HPX	14,00	107	60	43	2,9	45	14	●
B221A14100HPX	14,10	115	65	45	2,9	48	16	●
B221A14200HPX	14,20	115	65	45	3,0	48	16	●
B221A14288HPX	14,29	115	65	45	3,0	48	16	●
B221A14300HPX	14,30	115	65	45	3,0	48	16	●
B221A14500HPX	14,50	115	65	45	3,0	48	16	●
B221A14600HPX	14,60	115	65	45	3,0	48	16	●
B221A14700HPX	14,70	115	65	45	3,1	48	16	●
B221A15000HPX	15,00	115	65	45	3,1	48	16	●
B221A15100HPX	15,10	115	65	45	3,1	48	16	●
B221A15300HPX	15,30	115	65	45	3,2	48	16	●
B221A15500HPX	15,50	115	65	45	3,2	48	16	●
B221A15600HPX	15,60	115	65	45	3,2	48	16	●
B221A15700HPX	15,70	115	65	45	3,3	48	16	●
B221A15800HPX	15,80	115	65	45	3,3	48	16	●
B221A15875HPX	15,88	115	65	45	3,3	48	16	●
B221A16000HPX	16,00	115	65	45	3,3	48	16	●
B221A16500HPX	16,50	123	73	51	3,4	48	18	●
B221A17000HPX	17,00	123	73	51	3,5	48	18	●
B221A17463HPX	17,46	123	73	51	3,6	48	18	●
B221A17500HPX	17,50	123	73	51	3,6	48	18	●
B221A17700HPX	17,70	123	73	51	3,7	48	18	●
B221A18000HPX	18,00	123	73	51	3,7	48	18	●
B221A18500HPX	18,50	131	79	55	3,8	50	20	●
B221A19000HPX	19,00	131	79	55	3,9	50	20	●
B221A19050HPX	19,05	131	79	55	3,9	50	20	●
B221A19500HPX	19,50	131	79	55	4,0	50	20	●
B221A20000HPX	20,00	131	79	55	4,1	50	20	●

154	156	10	4	160

HPX • B222 • 5 X D



● first choice

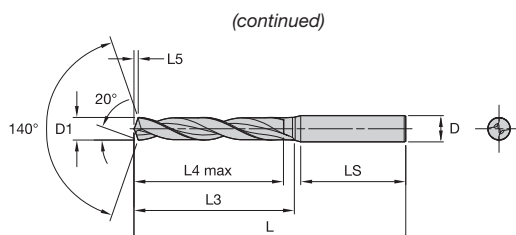
○ alternate choice

P	●
M	●
K	●
N	●
S	●
H	●

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B222A03000HPX	3,00	66	28	23	0,7	36	6	●
B222A03048HPX	3,05	66	28	23	0,7	36	6	●
B222A03100HPX	3,10	66	28	23	0,7	36	6	●
B222A03175HPX	3,18	66	28	23	0,7	36	6	●
B222A03200HPX	3,20	66	28	23	0,7	36	6	●
B222A03264HPX	3,26	66	28	23	0,8	36	6	●
B222A03300HPX	3,30	66	28	23	0,8	36	6	●
B222A03400HPX	3,40	66	28	23	0,8	36	6	●
B222A03455HPX	3,46	66	28	23	0,8	36	6	●
B222A03500HPX	3,50	66	28	23	0,8	36	6	●
B222A03571HPX	3,57	66	28	23	0,8	36	6	●
B222A03600HPX	3,60	66	28	23	0,8	36	6	●
B222A03700HPX	3,70	66	28	23	0,8	36	6	●
B222A03800HPX	3,80	74	36	29	0,9	36	6	●
B222A03900HPX	3,90	74	36	29	0,9	36	6	●
B222A03970HPX	3,97	74	36	29	0,9	36	6	●
B222A04000HPX	4,00	74	36	29	0,9	36	6	●
B222A04100HPX	4,10	74	36	29	0,9	36	6	●
B222A04200HPX	4,20	74	36	29	0,9	36	6	●
B222A04300HPX	4,30	74	36	29	1,0	36	6	●
B222A04400HPX	4,40	74	36	29	1,0	36	6	●
B222A04500HPX	4,50	74	36	29	1,0	36	6	●
B222A04600HPX	4,60	74	36	29	1,0	36	6	●
B222A04700HPX	4,70	74	36	29	1,1	36	6	●
B222A04763HPX	4,76	82	44	35	1,1	36	6	●
B222A04800HPX	4,80	82	44	35	1,1	36	6	●
B222A04900HPX	4,90	82	44	35	1,1	36	6	●
B222A05000HPX	5,00	82	44	35	1,1	36	6	●
B222A05100HPX	5,10	82	44	35	1,1	36	6	●
B222A05106HPX	5,11	82	44	35	1,1	36	6	●
B222A05159HPX	5,16	82	44	35	1,1	36	6	●
B222A05200HPX	5,20	82	44	35	1,2	36	6	●
B222A05300HPX	5,30	82	44	35	1,2	36	6	●
B222A05400HPX	5,40	82	44	35	1,2	36	6	●
B222A05410HPX	5,41	82	44	35	1,2	36	6	●
B222A05500HPX	5,50	82	44	35	1,2	36	6	●
B222A05558HPX	5,56	82	44	35	1,2	36	6	●
B222A05600HPX	5,60	82	44	35	1,2	36	6	●
B222A05700HPX	5,70	82	44	35	1,3	36	6	●
B222A05791HPX	5,79	82	44	35	1,3	36	6	●
B222A05800HPX	5,80	82	44	35	1,3	36	6	●
B222A05900HPX	5,90	82	44	35	1,3	36	6	●
B222A06000HPX	6,00	82	44	35	1,3	36	6	●
B222A06100HPX	6,10	91	53	43	1,3	36	8	●
B222A06200HPX	6,20	91	53	43	1,4	36	8	●
B222A06300HPX	6,30	91	53	43	1,4	36	8	●
B222A06350HPX	6,35	91	53	43	1,4	36	8	●
B222A06400HPX	6,40	91	53	43	1,4	36	8	●
B222A06500HPX	6,50	91	53	43	1,4	36	8	●
B222A06600HPX	6,60	91	53	43	1,4	36	8	●
B222A06700HPX	6,70	91	53	43	1,5	36	8	●
B222A06746HPX	6,75	91	53	43	1,5	36	8	●
B222A06800HPX	6,80	91	53	43	1,5	36	8	●
B222A06900HPX	6,90	91	53	43	1,5	36	8	●
B222A07000HPX	7,00	91	53	43	1,5	36	8	●
B222A07100HPX	7,10	91	53	43	1,5	36	8	●
B222A07145HPX	7,15	91	53	43	1,6	36	8	●
B222A07200HPX	7,20	91	53	43	1,6	36	8	●
B222A07300HPX	7,30	91	53	43	1,6	36	8	●
B222A07400HPX	7,40	91	53	43	1,6	36	8	●

				NOVO
154	156	10	4	160

HPX • B222 • 5 X D



● first choice

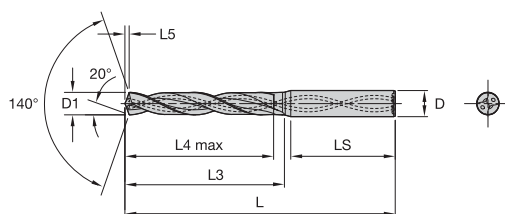
○ alternate choice

P	●
M	●
K	●
N	●
S	●
H	●

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B222A07500HPX	7,50	91	53	43	1,6	36	8	●
B222A07541HPX	7,54	91	53	43	1,6	36	8	●
B222A07800HPX	7,80	91	53	43	1,7	36	8	●
B222A07938HPX	7,94	91	53	43	1,7	36	8	●
B222A08000HPX	8,00	91	53	43	1,7	36	8	●
B222A08100HPX	8,10	103	61	49	1,7	40	10	●
B222A08200HPX	8,20	103	61	49	1,8	40	10	●
B222A08334HPX	8,33	103	61	49	1,8	40	10	●
B222A08500HPX	8,50	103	61	49	1,8	40	10	●
B222A08700HPX	8,70	103	61	49	1,9	40	10	●
B222A08733HPX	8,73	103	61	49	1,9	40	10	●
B222A08800HPX	8,80	103	61	49	1,9	40	10	●
B222A09000HPX	9,00	103	61	49	1,9	40	10	●
B222A09129HPX	9,13	103	61	49	2,0	40	10	●
B222A09400HPX	9,40	103	61	49	2,0	40	10	●
B222A09500HPX	9,50	103	61	49	2,0	40	10	●
B222A09525HPX	9,53	103	61	49	2,0	40	10	●
B222A09800HPX	9,80	103	61	49	2,1	40	10	●
B222A10000HPX	10,00	103	61	49	2,1	40	10	●
B222A10200HPX	10,20	118	71	56	2,2	45	12	●
B222A10300HPX	10,30	118	71	56	2,2	45	12	●
B222A10320HPX	10,32	118	71	56	2,2	45	12	●
B222A10500HPX	10,50	118	71	56	2,2	45	12	●
B222A10716HPX	10,72	118	71	56	2,3	45	12	●
B222A10800HPX	10,80	118	71	56	2,3	45	12	●
B222A11000HPX	11,00	118	71	56	2,3	45	12	●
B222A11113HPX	11,11	118	71	56	2,3	45	12	●
B222A11500HPX	11,50	118	71	56	2,4	45	12	●
B222A11509HPX	11,51	118	71	56	2,4	45	12	●
B222A12000HPX	12,00	118	71	56	2,5	45	12	●
B222A12500HPX	12,50	124	77	60	2,6	45	14	●
B222A12700HPX	12,70	124	77	60	2,7	45	14	●
B222A13000HPX	13,00	124	77	60	2,7	45	14	●
B222A13500HPX	13,50	124	77	60	2,8	45	14	●
B222A14000HPX	14,00	124	77	60	2,9	45	14	●
B222A14288HPX	14,29	133	83	63	3,0	48	16	●
B222A14500HPX	14,50	133	83	63	3,0	48	16	●
B222A15000HPX	15,00	133	83	63	3,1	48	16	●
B222A15500HPX	15,50	133	83	63	3,2	48	16	●
B222A15875HPX	15,88	133	83	63	3,3	48	16	●
B222A16000HPX	16,00	133	83	63	3,3	48	16	●
B222A16500HPX	16,50	143	93	71	3,4	48	18	●
B222A17000HPX	17,00	143	93	71	3,5	48	18	●
B222A17500HPX	17,50	143	93	71	3,6	48	18	●
B222A18000HPX	18,00	143	93	71	3,7	48	18	●
B222A18500HPX	18,50	153	101	77	3,8	50	20	●
B222A19000HPX	19,00	153	101	77	3,9	50	20	●
B222A20000HPX	20,00	153	101	77	4,1	50	20	●

154	156	10	4	160

HPX • B224 • 3 X D • THROUGH COOLANT



● first choice

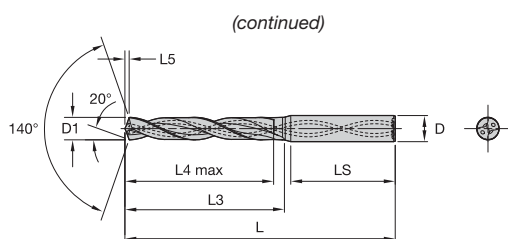
○ alternate choice

P	●
M	●
K	●
N	●
S	●
H	●

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B224A03000HPX	3,00	62	20	14	0,7	36	6	●
B224A03048HPX	3,05	62	20	14	0,7	36	6	●
B224A03100HPX	3,10	62	20	14	0,7	36	6	●
B224A03175HPX	3,18	62	20	14	0,7	36	6	●
B224A03200HPX	3,20	62	20	14	0,7	36	6	●
B224A03264HPX	3,26	62	20	14	0,8	36	6	●
B224A03300HPX	3,30	62	20	14	0,8	36	6	●
B224A03400HPX	3,40	62	20	14	0,8	36	6	●
B224A03455HPX	3,46	62	20	14	0,8	36	6	●
B224A03500HPX	3,50	62	20	14	0,8	36	6	●
B224A03571HPX	3,57	62	20	14	0,8	36	6	●
B224A03600HPX	3,60	62	20	14	0,8	36	6	●
B224A03658HPX	3,66	62	20	14	0,8	36	6	●
B224A03700HPX	3,70	62	20	14	0,8	36	6	●
B224A03800HPX	3,80	66	24	17	0,9	36	6	●
B224A03900HPX	3,90	66	24	17	0,9	36	6	●
B224A03970HPX	3,97	66	24	17	0,9	36	6	●
B224A04000HPX	4,00	66	24	17	0,9	36	6	●
B224A04100HPX	4,10	66	24	17	0,9	36	6	●
B224A04200HPX	4,20	66	24	17	0,9	36	6	●
B224A04217HPX	4,22	66	24	17	1,0	36	6	●
B224A04300HPX	4,30	66	24	17	1,0	36	6	●
B224A04400HPX	4,40	66	24	17	1,0	36	6	●
B224A04500HPX	4,50	66	24	17	1,0	36	6	●
B224A04600HPX	4,60	66	24	17	1,0	36	6	●
B224A04700HPX	4,70	66	24	17	1,1	36	6	●
B224A04763HPX	4,76	66	28	20	1,1	36	6	●
B224A04800HPX	4,80	66	28	20	1,1	36	6	●
B224A04852HPX	4,85	66	28	20	1,1	36	6	●
B224A04900HPX	4,90	66	28	20	1,1	36	6	●
B224A05000HPX	5,00	66	28	20	1,1	36	6	●
B224A05100HPX	5,10	66	28	20	1,1	36	6	●
B224A05106HPX	5,11	66	28	20	1,1	36	6	●
B224A05159HPX	5,16	66	28	20	1,1	36	6	●
B224A05200HPX	5,20	66	28	20	1,2	36	6	●
B224A05300HPX	5,30	66	28	20	1,2	36	6	●
B224A05400HPX	5,40	66	28	20	1,2	36	6	●
B224A05410HPX	5,41	66	28	20	1,2	36	6	●
B224A05500HPX	5,50	66	28	20	1,2	36	6	●
B224A05558HPX	5,56	66	28	20	1,2	36	6	●
B224A05600HPX	5,60	66	28	20	1,2	36	6	●
B224A05700HPX	5,70	66	28	20	1,3	36	6	●
B224A05791HPX	5,79	66	28	20	1,3	36	6	●
B224A05800HPX	5,80	66	28	20	1,3	36	6	●
B224A05900HPX	5,90	66	28	20	1,3	36	6	●
B224A06000HPX	6,00	66	28	20	1,3	36	6	●
B224A06100HPX	6,10	79	34	24	1,3	36	8	●
B224A06200HPX	6,20	79	34	24	1,4	36	8	●
B224A06300HPX	6,30	79	34	24	1,4	36	8	●
B224A06350HPX	6,35	79	34	24	1,4	36	8	●
B224A06400HPX	6,40	79	34	24	1,4	36	8	●
B224A06500HPX	6,50	79	34	24	1,4	36	8	●
B224A06600HPX	6,60	79	34	24	1,4	36	8	●
B224A06700HPX	6,70	79	34	24	1,5	36	8	●
B224A06746HPX	6,75	79	34	24	1,5	36	8	●
B224A06800HPX	6,80	79	34	24	1,5	36	8	●
B224A07000HPX	7,00	79	34	24	1,5	36	8	●
B224A07100HPX	7,10	79	41	29	1,5	36	8	●
B224A07145HPX	7,15	79	41	29	1,6	36	8	●
B224A07200HPX	7,20	79	41	29	1,6	36	8	●

				NOVO
154	156	10	4	160

HPX • B224 • 3 X D • THROUGH COOLANT



● first choice

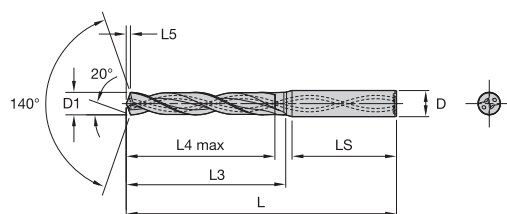
○ alternate choice

P	●
M	●
K	●
N	●
S	●
H	●

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B224A07300HPX	7,30	79	41	29	1,6	36	8	●
B224A07400HPX	7,40	79	41	29	1,6	36	8	●
B224A07500HPX	7,50	79	41	29	1,6	36	8	●
B224A07541HPX	7,54	79	41	29	1,6	36	8	●
B224A07800HPX	7,80	79	41	29	1,7	36	8	●
B224A07938HPX	7,94	79	41	29	1,7	36	8	●
B224A08000HPX	8,00	79	41	29	1,7	36	8	●
B224A08100HPX	8,10	89	47	35	1,7	40	10	●
B224A08200HPX	8,20	89	47	35	1,8	40	10	●
B224A08334HPX	8,33	89	47	35	1,8	40	10	●
B224A08500HPX	8,50	89	47	35	1,8	40	10	●
B224A08700HPX	8,70	89	47	35	1,9	40	10	●
B224A08733HPX	8,73	89	47	35	1,9	40	10	●
B224A08800HPX	8,80	89	47	35	1,9	40	10	●
B224A09000HPX	9,00	89	47	35	1,9	40	10	●
B224A09100HPX	9,10	89	47	35	1,9	40	10	●
B224A09129HPX	9,13	89	47	35	2,0	40	10	●
B224A09400HPX	9,40	89	47	35	2,0	40	10	●
B224A09500HPX	9,50	89	47	35	2,0	40	10	●
B224A09525HPX	9,53	89	47	35	2,0	40	10	●
B224A09800HPX	9,80	89	47	35	2,1	40	10	●
B224A10000HPX	10,00	89	47	35	2,1	40	10	●
B224A10200HPX	10,20	102	55	40	2,2	45	12	●
B224A10300HPX	10,30	102	55	40	2,2	45	12	●
B224A10320HPX	10,32	102	55	40	2,2	45	12	●
B224A10500HPX	10,50	102	55	40	2,2	45	12	●
B224A10716HPX	10,72	102	55	40	2,3	45	12	●
B224A10800HPX	10,80	102	55	40	2,3	45	12	●
B224A11000HPX	11,00	102	55	40	2,3	45	12	●
B224A11113HPX	11,11	102	55	40	2,3	45	12	●
B224A11500HPX	11,50	102	55	40	2,4	45	12	●
B224A11509HPX	11,51	102	55	40	2,4	45	12	●
B224A12000HPX	12,00	102	55	40	2,5	45	12	●
B224A12500HPX	12,50	107	60	43	2,6	45	14	●
B224A12700HPX	12,70	107	60	43	2,7	45	14	●
B224A13000HPX	13,00	107	60	43	2,7	45	14	●
B224A13500HPX	13,50	107	60	43	2,8	45	14	●
B224A14000HPX	14,00	107	60	43	2,9	45	14	●
B224A14288HPX	14,29	115	65	45	3,0	48	16	●
B224A14500HPX	14,50	115	65	45	3,0	48	16	●
B224A15000HPX	15,00	115	65	45	3,1	48	16	●
B224A15500HPX	15,50	115	65	45	3,2	48	16	●
B224A15875HPX	15,88	115	65	45	3,3	48	16	●
B224A16000HPX	16,00	115	65	45	3,3	48	16	●
B224A16500HPX	16,50	123	73	51	3,4	48	18	●
B224A17000HPX	17,00	123	73	51	3,5	48	18	●
B224A17500HPX	17,50	123	73	51	3,6	48	18	●
B224A18000HPX	18,00	123	73	51	3,7	48	18	●
B224A18500HPX	18,50	131	79	55	3,8	50	20	●
B224A19000HPX	19,00	131	79	55	3,9	50	20	●
B224A20000HPX	20,00	131	79	55	4,1	50	20	●

154	156	10	4	160

HPX • B225 • 5 X D • THROUGH COOLANT



● first choice

○ alternate choice

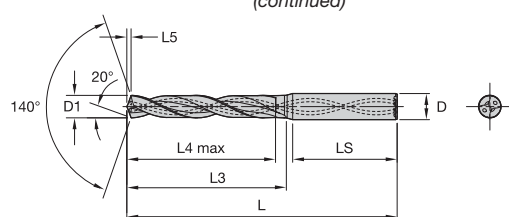
P		
M		
K		
N		
S		
H		

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B225A03000HPX	3,00	66	28	23	0,7	36	6	●
B225A03048HPX	3,05	66	28	23	0,7	36	6	●
B225A03100HPX	3,10	66	28	23	0,7	36	6	●
B225A03175HPX	3,18	66	28	23	0,7	36	6	●
B225A03200HPX	3,20	66	28	23	0,7	36	6	●
B225A03264HPX	3,26	66	28	23	0,8	36	6	●
B225A03300HPX	3,30	66	28	23	0,8	36	6	●
B225A03400HPX	3,40	66	28	23	0,8	36	6	●
B225A03455HPX	3,46	66	28	23	0,8	36	6	●
B225A03500HPX	3,50	66	28	23	0,8	36	6	●
B225A03571HPX	3,57	66	28	23	0,8	36	6	●
B225A03600HPX	3,60	66	28	23	0,8	36	6	●
B225A03700HPX	3,70	66	28	23	0,8	36	6	●
B225A03800HPX	3,80	74	36	29	0,9	36	6	●
B225A03900HPX	3,90	74	36	29	0,9	36	6	●
B225A03970HPX	3,97	74	36	29	0,9	36	6	●
B225A04000HPX	4,00	74	36	29	0,9	36	6	●
B225A04039HPX	4,04	74	36	29	0,9	36	6	●
B225A04100HPX	4,10	74	36	29	0,9	36	6	●
B225A04200HPX	4,20	74	36	29	0,9	36	6	●
B225A04300HPX	4,30	74	36	29	1,0	36	6	●
B225A04366HPX	4,37	74	36	29	1,0	36	6	●
B225A04400HPX	4,40	74	36	29	1,0	36	6	●
B225A04500HPX	4,50	74	36	29	1,0	36	6	●
B225A04600HPX	4,60	74	36	29	1,0	36	6	●
B225A04700HPX	4,70	74	36	29	1,1	36	6	●
B225A04763HPX	4,76	82	44	35	1,1	36	6	●
B225A04800HPX	4,80	82	44	35	1,1	36	6	●
B225A04900HPX	4,90	82	44	35	1,1	36	6	●
B225A05000HPX	5,00	82	44	35	1,1	36	6	●
B225A05100HPX	5,10	82	44	35	1,1	36	6	●
B225A05106HPX	5,11	82	44	35	1,1	36	6	●
B225A05159HPX	5,16	82	44	35	1,1	36	6	●
B225A05200HPX	5,20	82	44	35	1,2	36	6	●
B225A05300HPX	5,30	82	44	35	1,2	36	6	●
B225A05400HPX	5,40	82	44	35	1,2	36	6	●
B225A05410HPX	5,41	82	44	35	1,2	36	6	●
B225A05500HPX	5,50	82	44	35	1,2	36	6	●
B225A05558HPX	5,56	82	44	35	1,2	36	6	●
B225A05600HPX	5,60	82	44	35	1,2	36	6	●
B225A05700HPX	5,70	82	44	35	1,3	36	6	●
B225A05791HPX	5,79	82	44	35	1,3	36	6	●
B225A05800HPX	5,80	82	44	35	1,3	36	6	●
B225A05900HPX	5,90	82	44	35	1,3	36	6	●
B225A05954HPX	5,95	82	44	35	1,3	36	6	●
B225A06000HPX	6,00	82	44	35	1,3	36	6	●
B225A06100HPX	6,10	91	53	43	1,3	36	8	●
B225A06200HPX	6,20	91	53	43	1,4	36	8	●
B225A06300HPX	6,30	91	53	43	1,4	36	8	●
B225A06350HPX	6,35	91	53	43	1,4	36	8	●
B225A06400HPX	6,40	91	53	43	1,4	36	8	●
B225A06500HPX	6,50	91	53	43	1,4	36	8	●
B225A06528HPX	6,53	91	53	43	1,4	36	8	●
B225A06600HPX	6,60	91	53	43	1,4	36	8	●
B225A06700HPX	6,70	91	53	43	1,5	36	8	●
B225A06746HPX	6,75	91	53	43	1,5	36	8	●
B225A06800HPX	6,80	91	53	43	1,5	36	8	●
B225A06900HPX	6,90	91	53	43	1,5	36	8	●
B225A07000HPX	7,00	91	53	43	1,5	36	8	●
B225A07100HPX	7,10	91	53	43	1,5	36	8	●

				NOVO
154	156	10	4	160

HPX • B225 • 5 X D • THROUGH COOLANT

(continued)



● first choice

○ alternate choice

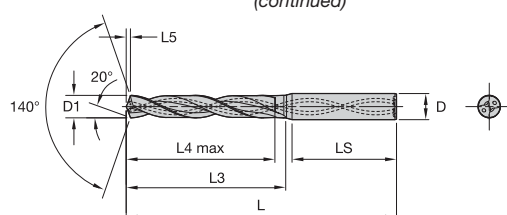
P		
M		
K		
N		
S		
H		

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B225A07145HPX	7,15	91	53	43	1,6	36	8	●
B225A07200HPX	7,20	91	53	43	1,6	36	8	●
B225A07300HPX	7,30	91	53	43	1,6	36	8	●
B225A07400HPX	7,40	91	53	43	1,6	36	8	●
B225A07500HPX	7,50	91	53	43	1,6	36	8	●
B225A07541HPX	7,54	91	53	43	1,6	36	8	●
B225A07600HPX	7,60	91	53	43	1,6	36	8	●
B225A07700HPX	7,70	91	53	43	1,7	36	8	●
B225A07800HPX	7,80	91	53	43	1,7	36	8	●
B225A07900HPX	7,90	91	53	43	1,7	36	8	●
B225A07938HPX	7,94	91	53	43	1,7	36	8	●
B225A08000HPX	8,00	91	53	43	1,7	36	8	●
B225A08100HPX	8,10	103	61	49	1,7	40	10	●
B225A08200HPX	8,20	103	61	49	1,8	40	10	●
B225A08300HPX	8,30	103	61	49	1,8	40	10	●
B225A08334HPX	8,33	103	61	49	1,8	40	10	●
B225A08400HPX	8,40	103	61	49	1,8	40	10	●
B225A08500HPX	8,50	103	61	49	1,8	40	10	●
B225A08600HPX	8,60	103	61	49	1,8	40	10	●
B225A08700HPX	8,70	103	61	49	1,9	40	10	●
B225A08733HPX	8,73	103	61	49	1,9	40	10	●
B225A08800HPX	8,80	103	61	49	1,9	40	10	●
B225A08900HPX	8,90	103	61	49	1,9	40	10	●
B225A09000HPX	9,00	103	61	49	1,9	40	10	●
B225A09100HPX	9,10	103	61	49	1,9	40	10	●
B225A09129HPX	9,13	103	61	49	2,0	40	10	●
B225A09200HPX	9,20	103	61	49	2,0	40	10	●
B225A09300HPX	9,30	103	61	49	2,0	40	10	●
B225A09347HPX	9,35	103	61	49	2,0	40	10	●
B225A09400HPX	9,40	103	61	49	2,0	40	10	●
B225A09500HPX	9,50	103	61	49	2,0	40	10	●
B225A09525HPX	9,53	103	61	49	2,0	40	10	●
B225A09600HPX	9,60	103	61	49	2,0	40	10	●
B225A09700HPX	9,70	103	61	49	2,1	40	10	●
B225A09800HPX	9,80	103	61	49	2,1	40	10	●
B225A09900HPX	9,90	103	61	49	2,1	40	10	●
B225A09921HPX	9,92	103	61	49	2,1	40	10	●
B225A10000HPX	10,00	103	61	49	2,1	40	10	●
B225A10100HPX	10,10	118	71	56	2,1	45	12	●
B225A10200HPX	10,20	118	71	56	2,2	45	12	●
B225A10300HPX	10,30	118	71	56	2,2	45	12	●
B225A10320HPX	10,32	118	71	56	2,2	45	12	●
B225A10400HPX	10,40	118	71	56	2,2	45	12	●
B225A10500HPX	10,50	118	71	56	2,2	45	12	●
B225A10600HPX	10,60	118	71	56	2,2	45	12	●
B225A10700HPX	10,70	118	71	56	2,3	45	12	●
B225A10716HPX	10,72	118	71	56	2,3	45	12	●
B225A10800HPX	10,80	118	71	56	2,3	45	12	●
B225A11000HPX	11,00	118	71	56	2,3	45	12	●
B225A11100HPX	11,10	118	71	56	2,3	45	12	●
B225A11113HPX	11,11	118	71	56	2,3	45	12	●
B225A11200HPX	11,20	118	71	56	2,4	45	12	●
B225A11300HPX	11,30	118	71	56	2,4	45	12	●
B225A11400HPX	11,40	118	71	56	2,4	45	12	●
B225A11500HPX	11,50	118	71	56	2,4	45	12	●
B225A11509HPX	11,51	118	71	56	2,4	45	12	●
B225A11600HPX	11,60	118	71	56	2,4	45	12	●
B225A11700HPX	11,70	118	71	56	2,5	45	12	●
B225A11800HPX	11,80	118	71	56	2,5	45	12	●
B225A11900HPX	11,90	118	71	56	2,5	45	12	●

				NOVO
154	156	10	4	160

HPX • B225 • 5 X D • THROUGH COOLANT

(continued)



● first choice

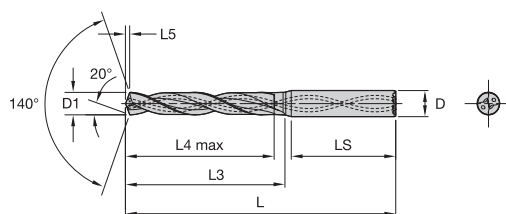
○ alternate choice

P		●
M		●
K		●
N		●
S		●
H		●

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B225A11908HPX	11,91	118	71	56	2,5	45	12	●
B225A12000HPX	12,00	118	71	56	2,5	45	12	●
B225A12100HPX	12,10	124	77	60	2,5	45	14	●
B225A12200HPX	12,20	124	77	60	2,6	45	14	●
B225A12300HPX	12,30	124	77	60	2,6	45	14	●
B225A12304HPX	12,30	124	77	60	2,6	45	14	●
B225A12400HPX	12,40	124	77	60	2,6	45	14	●
B225A12500HPX	12,50	124	77	60	2,6	45	14	●
B225A12600HPX	12,60	124	77	60	2,6	45	14	●
B225A12700HPX	12,70	124	77	60	2,7	45	14	●
B225A12800HPX	12,80	124	77	60	2,7	45	14	●
B225A12900HPX	12,90	124	77	60	2,7	45	14	●
B225A13000HPX	13,00	124	77	60	2,7	45	14	●
B225A13100HPX	13,10	124	77	60	2,7	45	14	●
B225A13300HPX	13,30	124	77	60	2,8	45	14	●
B225A13500HPX	13,50	124	77	60	2,8	45	14	●
B225A13700HPX	13,70	124	77	60	2,9	45	14	●
B225A13800HPX	13,80	124	77	60	2,9	45	14	●
B225A14000HPX	14,00	124	77	60	2,9	45	14	●
B225A14100HPX	14,10	133	83	63	2,9	48	16	●
B225A14200HPX	14,20	133	83	63	3,0	48	16	●
B225A14288HPX	14,29	133	83	63	3,0	48	16	●
B225A14300HPX	14,30	133	83	63	3,0	48	16	●
B225A14500HPX	14,50	133	83	63	3,0	48	16	●
B225A14600HPX	14,60	133	83	63	3,0	48	16	●
B225A14700HPX	14,70	133	83	63	3,1	48	16	●
B225A15000HPX	15,00	133	83	63	3,1	48	16	●
B225A15100HPX	15,10	133	83	63	3,1	48	16	●
B225A15300HPX	15,30	133	83	63	3,2	48	16	●
B225A15500HPX	15,50	133	83	63	3,2	48	16	●
B225A15600HPX	15,60	133	83	63	3,2	48	16	●
B225A15700HPX	15,70	133	83	63	3,3	48	16	●
B225A15800HPX	15,80	133	83	63	3,3	48	16	●
B225A15875HPX	15,88	133	83	63	3,3	48	16	●
B225A16000HPX	16,00	133	83	63	3,3	48	16	●
B225A16100HPX	16,10	143	93	71	3,3	48	18	●
B225A16500HPX	16,50	143	93	71	3,4	48	18	●
B225A16670HPX	16,67	143	93	71	3,5	48	18	●
B225A17000HPX	17,00	143	93	71	3,5	48	18	●
B225A17463HPX	17,46	143	93	71	3,6	48	18	●
B225A17500HPX	17,50	143	93	71	3,6	48	18	●
B225A17700HPX	17,70	143	93	71	3,7	48	18	●
B225A18000HPX	18,00	143	93	71	3,7	48	18	●
B225A18500HPX	18,50	153	101	77	3,8	50	20	●
B225A19000HPX	19,00	153	101	77	3,9	50	20	●
B225A19050HPX	19,05	153	101	77	3,9	50	20	●
B225A19500HPX	19,50	153	101	77	4,0	50	20	●
B225A20000HPX	20,00	153	101	77	4,1	50	20	●

				NOVO
154	156	10	4	160

HPX • B226 • 8 X D • THROUGH COOLANT



● first choice

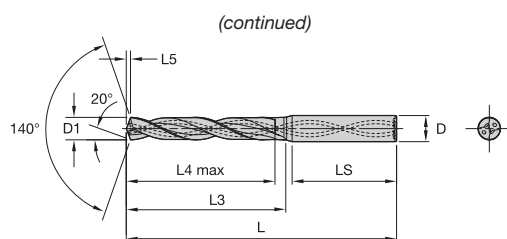
○ alternate choice

P	●
M	●
K	●
N	●
S	●
H	●

catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B226A03000HPX	3,00	78	40	33	0,7	36	6	●
B226A03048HPX	3,05	78	40	33	0,7	36	6	●
B226A03100HPX	3,10	78	40	33	0,7	36	6	●
B226A03175HPX	3,18	78	40	33	0,7	36	6	●
B226A03200HPX	3,20	78	40	33	0,7	36	6	●
B226A03264HPX	3,26	78	40	33	0,8	36	6	●
B226A03300HPX	3,30	78	40	33	0,8	36	6	●
B226A03400HPX	3,40	78	40	33	0,8	36	6	●
B226A03455HPX	3,46	78	40	33	0,8	36	6	●
B226A03500HPX	3,50	78	40	33	0,8	36	6	●
B226A03571HPX	3,57	78	40	33	0,8	36	6	●
B226A03600HPX	3,60	78	40	33	0,8	36	6	●
B226A03700HPX	3,70	78	40	33	0,8	36	6	●
B226A03800HPX	3,80	87	49	41	0,9	36	6	●
B226A03900HPX	3,90	87	49	41	0,9	36	6	●
B226A03970HPX	3,97	87	49	41	0,9	36	6	●
B226A04000HPX	4,00	87	49	41	0,9	36	6	●
B226A04100HPX	4,10	87	49	41	0,9	36	6	●
B226A04200HPX	4,20	87	49	41	0,9	36	6	●
B226A04300HPX	4,30	87	49	41	1,0	36	6	●
B226A04500HPX	4,50	87	49	41	1,0	36	6	●
B226A04600HPX	4,60	87	49	41	1,0	36	6	●
B226A04700HPX	4,70	87	49	41	1,1	36	6	●
B226A04763HPX	4,76	94	56	48	1,1	36	6	●
B226A04800HPX	4,80	94	56	48	1,1	36	6	●
B226A04900HPX	4,90	94	56	48	1,1	36	6	●
B226A05000HPX	5,00	94	56	48	1,1	36	6	●
B226A05100HPX	5,10	94	56	48	1,1	36	6	●
B226A05106HPX	5,11	94	56	48	1,1	36	6	●
B226A05159HPX	5,16	94	56	48	1,1	36	6	●
B226A05200HPX	5,20	94	56	48	1,2	36	6	●
B226A05300HPX	5,30	94	56	48	1,2	36	6	●
B226A05400HPX	5,40	94	56	48	1,2	36	6	●
B226A05410HPX	5,41	94	56	48	1,2	36	6	●
B226A05500HPX	5,50	94	56	48	1,2	36	6	●
B226A05558HPX	5,56	94	56	48	1,2	36	6	●
B226A05600HPX	5,60	94	56	48	1,2	36	6	●
B226A05700HPX	5,70	94	56	48	1,3	36	6	●
B226A05800HPX	5,80	94	56	48	1,3	36	6	●
B226A05900HPX	5,90	94	56	48	1,3	36	6	●
B226A06000HPX	6,00	94	56	48	1,3	36	6	●
B226A06100HPX	6,10	105	67	57	1,3	36	8	●
B226A06200HPX	6,20	105	67	57	1,4	36	8	●
B226A06300HPX	6,30	105	67	57	1,4	36	8	●
B226A06350HPX	6,35	105	67	57	1,4	36	8	●
B226A06400HPX	6,40	105	67	57	1,4	36	8	●
B226A06500HPX	6,50	105	67	57	1,4	36	8	●
B226A06600HPX	6,60	105	67	57	1,4	36	8	●
B226A06700HPX	6,70	105	67	57	1,5	36	8	●
B226A06746HPX	6,75	105	67	57	1,5	36	8	●
B226A06800HPX	6,80	105	67	57	1,5	36	8	●
B226A06900HPX	6,90	105	67	57	1,5	36	8	●
B226A07000HPX	7,00	105	67	57	1,5	36	8	●
B226A07100HPX	7,10	113	74	64	1,5	36	8	●
B226A07145HPX	7,15	113	74	64	1,6	36	8	●
B226A07200HPX	7,20	113	74	64	1,6	36	8	●
B226A07300HPX	7,30	113	74	64	1,6	36	8	●
B226A07400HPX	7,40	113	74	64	1,6	36	8	●
B226A07500HPX	7,50	113	74	64	1,6	36	8	●
B226A07541HPX	7,54	113	74	64	1,6	36	8	●

154	156	10	4	160

HPX • B226 • 8 X D • THROUGH COOLANT



● first choice

○ alternate choice

P		
M		
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catalogue number	D1	L	L3	L4 max	L5	LS	D	KCP15B
B226A07800HPX	7,80	113	74	64	1,7	36	8	●
B226A07938HPX	7,94	113	74	64	1,7	36	8	●
B226A08000HPX	8,00	113	74	64	1,7	36	8	●
B226A08100HPX	8,10	135	92	80	1,7	40	10	●
B226A08200HPX	8,20	135	92	80	1,8	40	10	●
B226A08334HPX	8,33	135	92	80	1,8	40	10	●
B226A08500HPX	8,50	135	92	80	1,8	40	10	●
B226A08700HPX	8,70	135	92	80	1,9	40	10	●
B226A08733HPX	8,73	135	92	80	1,9	40	10	●
B226A08800HPX	8,80	135	92	80	1,9	40	10	●
B226A09000HPX	9,00	135	92	80	1,9	40	10	●
B226A09129HPX	9,13	135	92	80	2,0	40	10	●
B226A09400HPX	9,40	135	92	80	2,0	40	10	●
B226A09500HPX	9,50	135	92	80	2,0	40	10	●
B226A09525HPX	9,53	135	92	80	2,0	40	10	●
B226A09800HPX	9,80	135	92	80	2,1	40	10	●
B226A10000HPX	10,00	135	92	80	2,1	40	10	●
B226A10200HPX	10,20	158	110	96	2,2	45	12	●
B226A10300HPX	10,30	158	110	96	2,2	45	12	●
B226A10320HPX	10,32	158	110	96	2,2	45	12	●
B226A10500HPX	10,50	158	110	96	2,2	45	12	●
B226A10716HPX	10,72	158	110	96	2,3	45	12	●
B226A10800HPX	10,80	158	110	96	2,3	45	12	●
B226A11000HPX	11,00	158	110	96	2,3	45	12	●
B226A11113HPX	11,11	158	110	96	2,3	45	12	●
B226A11500HPX	11,50	158	110	96	2,4	45	12	●
B226A11509HPX	11,51	158	110	96	2,4	45	12	●
B226A12000HPX	12,00	158	110	96	2,5	45	12	●
B226A12500HPX	12,50	176	128	112	2,6	45	14	●
B226A12700HPX	12,70	176	128	112	2,7	45	14	●
B226A13000HPX	13,00	176	128	112	2,7	45	14	●
B226A13500HPX	13,50	176	128	112	2,8	45	14	●
B226A14000HPX	14,00	176	128	112	2,9	45	14	●
B226A14288HPX	14,29	197	146	128	3,0	48	16	●
B226A14500HPX	14,50	197	146	128	3,0	48	16	●
B226A15000HPX	15,00	197	146	128	3,1	48	16	●
B226A15500HPX	15,50	197	146	128	3,2	48	16	●
B226A15875HPX	15,88	197	146	128	3,3	48	16	●
B226A16000HPX	16,00	197	146	128	3,3	48	16	●
B226A16500HPX	16,50	214	163	144	3,4	48	18	●
B226A17000HPX	17,00	214	163	144	3,5	48	18	●
B226A17500HPX	17,50	214	163	144	3,6	48	18	●
B226A18000HPX	18,00	214	163	144	3,7	48	18	●

TOLERANCE

nominal size range	D1 tolerance m7	D tolerance h6
1-3	0,002/0,012	0,000/-0,006
>3-6	0,004/0,016	0,000/-0,008
>6-10	0,006/0,021	0,000/-0,009
>10-18	0,007/0,025	0,000/-0,011
>18-25,4	0,008/0,029	0,000/-0,013

154	156	10	4	160

HPX • FLOOD COOLANT • APPLICATION DATA

Material Group													
		Cutting Speed — vc			Metric								
		Range — m/min			Recommended Feed Rate per Rev								
		min	Starting Value	max		3,0	4,0	6,0	8,0	10,0	12,0	16,0	20,0
P	0	80	110	170	mm/r	0,06–0,19	0,07–0,21	0,09–0,25	0,11–0,30	0,13–0,34	0,15–0,38	0,19–0,47	0,23–0,56
	1	70	110	150	mm/r	0,05–0,22	0,07–0,24	0,11–0,30	0,14–0,35	0,17–0,40	0,21–0,45	0,28–0,56	0,34–0,66
	2	90	120	160	mm/r	0,09–0,21	0,11–0,23	0,13–0,29	0,16–0,34	0,19–0,39	0,22–0,44	0,27–0,55	0,33–0,65
	3	60	90	120	mm/r	0,12–0,22	0,13–0,24	0,16–0,30	0,19–0,35	0,22–0,40	0,25–0,45	0,31–0,56	0,37–0,66
	4	50	80	120	mm/r	0,23–0,11	0,25–0,12	0,31–0,15	0,36–0,17	0,41–0,20	0,46–0,23	0,57–0,28	0,67–0,33
	5	50	60	70	mm/r	0,08–0,15	0,09–0,17	0,12–0,21	0,14–0,26	0,17–0,30	0,20–0,34	0,25–0,43	0,30–0,52
	6	50	60	70	mm/r	0,08–0,15	0,09–0,17	0,12–0,21	0,14–0,26	0,17–0,30	0,20–0,34	0,25–0,43	0,30–0,52

HPX • THROUGH COOLANT • APPLICATION DATA

Material Group													
		Cutting Speed — vc			Metric								
		Range — m/min			Recommended Feed Rate per Rev								
		min	Starting Value	max		3,0	4,0	6,0	8,0	10,0	12,0	16,0	20,0
P	0	140	240	290	mm/r	0,13–0,24	0,14–0,26	0,15–0,30	0,17–0,34	0,19–0,38	0,21–0,42	0,24–0,50	0,28–0,58
	1	130	240	290	mm/r	0,15–0,30	0,16–0,33	0,18–0,39	0,20–0,45	0,22–0,51	0,24–0,57	0,28–0,69	0,32–0,81
	2	190	230	270	mm/r	0,14–0,29	0,15–0,32	0,18–0,38	0,21–0,43	0,24–0,49	0,27–0,55	0,33–0,66	0,39–0,77
	3	130	160	190	mm/r	0,15–0,30	0,17–0,33	0,20–0,38	0,23–0,44	0,26–0,50	0,29–0,56	0,36–0,67	0,42–0,79
	4	110	150	170	mm/r	0,13–0,25	0,15–0,27	0,19–0,33	0,22–0,38	0,26–0,43	0,30–0,48	0,37–0,59	0,44–0,69
	5	70	90	110	mm/r	0,11–0,21	0,13–0,24	0,15–0,28	0,18–0,33	0,21–0,38	0,24–0,42	0,29–0,51	0,35–0,61
	6	60	80	100	mm/r	0,11–0,21	0,13–0,24	0,15–0,28	0,18–0,33	0,21–0,38	0,24–0,42	0,29–0,51	0,35–0,61

HPX • MQL • APPLICATION DATA

Material Group													
		Cutting Speed — vc			Metric								
		Range — m/min			Recommended Feed Rate per Rev								
		min	Starting Value	max		3,0	4,0	6,0	8,0	10,0	12,0	16,0	20,0
P	0	70	130	150	mm/r	0,15–0,28	0,16–0,31	0,18–0,35	0,20–0,40	0,22–0,45	0,25–0,50	0,29–0,59	0,33–0,68
	1	70	130	150	mm/r	0,18–0,35	0,19–0,39	0,21–0,46	0,24–0,53	0,26–0,60	0,28–0,67	0,33–0,81	0,38–0,96
	2	100	120	140	mm/r	0,16–0,35	0,18–0,38	0,21–0,45	0,25–0,51	0,28–0,58	0,32–0,64	0,39–0,78	0,46–0,91
	3	70	90	100	mm/r	0,18–0,35	0,19–0,38	0,23–0,45	0,27–0,52	0,31–0,59	0,35–0,66	0,42–0,80	0,50–0,93
	4	60	80	90	mm/r	0,16–0,29	0,18–0,32	0,22–0,38	0,26–0,45	0,31–0,51	0,35–0,57	0,43–0,69	0,52–0,81
	5	40	50	60	mm/r	0,13–0,25	0,15–0,28	0,18–0,33	0,21–0,39	0,25–0,44	0,28–0,50	0,35–0,61	0,41–0,71
	6	30	40	50	mm/r	0,13–0,25	0,15–0,28	0,18–0,33	0,21–0,39	0,25–0,44	0,28–0,50	0,35–0,61	0,41–0,71